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RAW SEQUENCE LISTING

DATE: 10/30/2002

PATENT APPLICATION: US/10/054,534B

TIME: 15:03:05

Input Set : A:\6763uspl.txt

Output Set: N:\CRF4\10302002\J054534B.raw

4 <110> APPLICANT: Abbott Laboratories
 5 Mukerji, Pradip
 6 Huang, Yung-Sheng
 7 Das, Tapas
 8 Thurmond, Jennifer M.
 9 Pereira, Suzette L.
 11 <120> TITLE OF INVENTION: DESATURASE GENES AND USES THEREOF
 14 <130> FILE REFERENCE: 6763.US.P1
 16 <140> CURRENT APPLICATION NUMBER: 10/054,534B
 17 <141> CURRENT FILING DATE: 2002-01-22
 19 <150> PRIOR APPLICATION NUMBER: US 09/769,863
 20 <151> PRIOR FILING DATE: 2001-01-25
 22 <160> NUMBER OF SEQ ID NOS: 55
 24 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 42
 28 <212> TYPE: DNA
 29 <213> ORGANISM: Artificial Sequence
 31 <220> FEATURE:
 32 <223> OTHER INFORMATION: Primer R0834
 W--> 34 <221> NAME/KEY: misc_feature
 35 <222> LOCATION: (3)...(3)
 36 <223> OTHER INFORMATION: b = g or c or t/u at position 3
 W--> 38 <221> misc_feature
 39 <222> LOCATION: (6)...(6)
 40 <223> OTHER INFORMATION: y = t/u or c at position 6
 W--> 42 <221> misc_feature
 43 <222> LOCATION: (9)...(9)
 44 <223> OTHER INFORMATION: y = t/u or c at position 9
 W--> 46 <221> misc_feature
 47 <222> LOCATION: (12)...(12)
 48 <223> OTHER INFORMATION: b = g or c or t/u at position 12
 W--> 50 <221> misc_difference
 51 <222> LOCATION: (18)...(18)
 52 <223> OTHER INFORMATION: r = g or a at position 18
 W--> 54 <221> misc_feature
 55 <222> LOCATION: (24)...(24)
 56 <223> OTHER INFORMATION: b = g or c or t/u at position 24
 W--> 58 <221> misc_feature
 59 <222> LOCATION: (30)...(30)
 60 <223> OTHER INFORMATION: y = t/u or c at position 30
 W--> 62 <221> misc_feature
 63 <222> LOCATION: (33)...(33)

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64 <223> OTHER INFORMATION: y = t/u or c at position 33
W--> 66 <221> misc_feature
67 <222> LOCATION: (36)...(36)
68 <223> OTHER INFORMATION: b = g or c or t/u at position 36
W--> 70 <221> misc_feature
71 <222> LOCATION: (39)...(39)
72 <223> OTHER INFORMATION: h = a or c or t/u at position 39
W--> 74 <221> misc_feature
75 <222> LOCATION: (42)...(42)
76 <223> OTHER INFORMATION: h = a or c or t/u at position 42
W--> 78 <400> 1
79 gtbtagayg tbaccgartg ggtbaagcgy cayccbghg gh 42
81 <210> SEQ ID NO: 2
82 <211> LENGTH: 45
83 <212> TYPE: DNA
84 <213> ORGANISM: Artificial Sequence
86 <220> FEATURE:
87 <223> OTHER INFORMATION: Forward Primer R0835
W--> 89 <221> NAME/KEY: misc_feature
90 <222> LOCATION: (3)...(3)
91 <223> OTHER INFORMATION: h = a or c or t/u at position 3
W--> 93 <221> misc_feature
94 <222> LOCATION: (6)...(6)
95 <223> OTHER INFORMATION: y = t/u or c at position 6
W--> 97 <221> misc_feature
98 <222> LOCATION: (12)...(12)
99 <223> OTHER INFORMATION: y = t/u or c at position 12
W--> 101 <221> misc_feature
102 <222> LOCATION: (27)...(27)
103 <223> OTHER INFORMATION: y = t/u or c at position 27
W--> 105 <221> misc_feature
106 <222> LOCATION: (33)...(33)
107 <223> OTHER INFORMATION: y = tu or c at position 33
W--> 109 <221> misc_feature
110 <222> LOCATION: (39)...(39)
111 <223> OTHER INFORMATION: b = g or c or t/u at position 39
W--> 113 <221> misc_feature
114 <222> LOCATION: (42)...(42)
115 <223> OTHER INFORMATION: y = t/u or c at position 42
W--> 117 <221> misc_feature
118 <222> LOCATION: (45)...(45)
119 <223> OTHER INFORMATION: y = t/u or c at position 45
W--> 121 <400> 2
122 gghgcytcg cyaactggtg gaagcaycag cayaacgtbc aycay 45
124 <210> SEQ ID NO: 3
125 <211> LENGTH: 45
126 <212> TYPE: DNA
127 <213> ORGANISM: Artificial Sequence
129 <220> FEATURE:

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RAW SEQUENCE LISTING

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130 <223> OTHER INFORMATION: Reverse Primer R0836
W--> 132 <221> NAME/KEY: misc_feature
133 <222> LOCATION: (1)...(1)
134 <223> OTHER INFORMATION: r = g or a at position 1
W--> 136 <221> misc_feature
137 <222> LOCATION: (4)...(4)
138 <223> OTHER INFORMATION: r = g or a at position 4
W--> 140 <221> misc_feature
141 <222> LOCATION: (7)...(7)
142 <223> OTHER INFORMATION: v = a or g or c at position 7
W--> 144 <221> misc_feature
145 <222> LOCATION: (13)...(13)
146 <223> OTHER INFORMATION: r = g or a at position 13
W--> 148 <221> misc_feature
149 <222> LOCATION: (19)...(19)
150 <223> OTHER INFORMATION: r = g or a at position 19
W--> 152 <221> misc_feature
153 <222> LOCATION: (34)...(34)
154 <223> OTHER INFORMATION: r = g or a at position 34
W--> 156 <221> misc_feature
157 <222> LOCATION: (40)...(40)
158 <223> OTHER INFORMATION: r = g or a at position 40
W--> 160 <221> misc_feature
161 <222> LOCATION: (43)...(43)
162 <223> OTHER INFORMATION: d = a or g or t/u at position 43
W--> 164 <400> 3
165 rtgrtgvacg ttrtgctgrt gcttcaccca gttgcggar gdcgc
167 <210> SEQ ID NO: 4
168 <211> LENGTH: 36
169 <212> TYPE: DNA
170 <213> ORGANISM: Artificial Sequence
172 <220> FEATURE:
173 <223> OTHER INFORMATION: Reverse Primer R0838
W--> 175 <221> NAME/KEY: misc_feature
176 <222> LOCATION: (6)...(6)
177 <223> OTHER INFORMATION: r = g or a at position 6
W--> 179 <221> misc_feature
180 <222> LOCATION: (12)...(12)
181 <223> OTHER INFORMATION: r = g or a at position 12
W--> 183 <221> misc_feature
184 <222> LOCATION: (15)...(15)
185 <223> OTHER INFORMATION: y = t/u or c at position 15
W--> 187 <221> misc_feature
188 <222> LOCATION: (18)...(18)
189 <223> OTHER INFORMATION: r = g or a at position 18
W--> 191 <221> misc_feature
192 <222> LOCATION: (21)...(21)
193 <223> OTHER INFORMATION: r = g or a at position 21
W--> 195 <221> misc_feature

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RAW SEQUENCE LISTING

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Input Set : A:\6763uspl.txt

Output Set: N:\CRF4\10302002\J054534B.raw

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196 <222> LOCATION: (24)...(24)
197 <223> OTHER INFORMATION: s = g or c at position 24
W--> 199 <221> misc_feature
200 <222> LOCATION: (27)...(27)
201 <223> OTHER INFORMATION: r = g or a at position 27
W--> 203 <221> misc_feature
204 <222> LOCATION: (30)...(30)
205 <223> OTHER INFORMATION: v = a or g or c at position 30
W--> 207 <400> 4
208 ttgatrgtct arctygttgt rgasaarggv tggtag
210 <210> SEQ ID NO: 5
211 <211> LENGTH: 24
212 <212> TYPE: DNA
213 <213> ORGANISM: Artificial Sequence
215 <220> FEATURE:
216 <223> OTHER INFORMATION: Primer R0753
W--> 218 <221> NAME/KEY: misc_feature
219 <222> LOCATION: (10)...(10)
220 <223> OTHER INFORMATION: n = a or g or c or t/u, unknown, or other at
221     position 10
W--> 223 <221> misc_feature
224 <222> LOCATION: (13)...(13)
225 <223> OTHER INFORMATION: r = g or a at position 13
W--> 227 <221> misc_feature
228 <222> LOCATION: (16)...(16)
229 <223> OTHER INFORMATION: n = a or g or c or t/u, unknown, or other at
230     position 16
W--> 232 <221> misc_feature
233 <222> LOCATION: (18)...(19)
234 <223> OTHER INFORMATION: r = g or a at positions 18-19
W--> 236 <221> misc_feature
237 <222> LOCATION: (22)...(22)
238 <223> OTHER INFORMATION: r = g or a at position 22
W--> 240 <400> 5
W--> 241 catcatcatn gggaanarrt grtg
243 <210> SEQ ID NO: 6
244 <211> LENGTH: 30
245 <212> TYPE: DNA
246 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
249 <223> OTHER INFORMATION: Primer R0754
W--> 251 <221> NAME/KEY: misc_feature
252 <222> LOCATION: (15)...(15)
253 <223> OTHER INFORMATION: y = t/u or c at position 15
W--> 255 <221> misc_feature
256 <222> LOCATION: (18)...(18)
257 <223> OTHER INFORMATION: y = t/u or c at position 18
W--> 259 <221> misc_feature
260 <222> LOCATION: (21)...(21)

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/054,534B

DATE: 10/30/2002

TIME: 15:03:05

Input Set : A:\6763uspl.txt

Output Set: N:\CRF4\10302002\J054534B.raw

```

261 <223> OTHER INFORMATION: n = a or g or c or t/u, unknown, or other at
262     position 21
W--> 264 <221> misc_feature
265 <222> LOCATION: (24)...(24)
266 <223> OTHER INFORMATION: y = t/u or c at position 24
W--> 268 <221> misc_feature
269 <222> LOCATION: (27)...(27)
270 <223> OTHER INFORMATION: n = a or g or c or t/u, unknown, or other at
271     position 27
W--> 273 <221> misc_feature
274 <222> LOCATION: (30)...(30)
275 <223> OTHER INFORMATION: y = t/u or c at position 30
W--> 277 <400> 6
W--> 278 ctactactac tacaycayac ntayacnaay                                30
280 <210> SEQ ID NO: 7
281 <211> LENGTH: 29
282 <212> TYPE: DNA
283 <213> ORGANISM: Artificial Sequence
285 <220> FEATURE:
286 <223> OTHER INFORMATION: Primer R0923
288 <400> SEQUENCE: 7
289 cggtgcagtg gtggaagaac aagcacaac                                29
291 <210> SEQ ID NO: 8
292 <211> LENGTH: 30
293 <212> TYPE: DNA
294 <213> ORGANISM: Artificial Sequence
296 <220> FEATURE:
297 <223> OTHER INFORMATION: Primer R0899
299 <400> SEQUENCE: 8
300 agcggataac aatttcacac aggaaacagc                                30
302 <210> SEQ ID NO: 9
303 <211> LENGTH: 30
304 <212> TYPE: DNA
305 <213> ORGANISM: Artificial Sequence
307 <220> FEATURE:
308 <223> OTHER INFORMATION: Primer R0939
310 <400> SEQUENCE: 9
311 cgtagtactg ctcgaggagc ttgagcgccg                                30
313 <210> SEQ ID NO: 10
314 <211> LENGTH: 31
315 <212> TYPE: DNA
316 <213> ORGANISM: Artificial Sequence
318 <220> FEATURE:
319 <223> OTHER INFORMATION: Primer R0898
321 <400> SEQUENCE: 10
322 cccagtcacg acgttgtaaa acgacggcca g                                31
324 <210> SEQ ID NO: 11
325 <211> LENGTH: 45
326 <212> TYPE: DNA

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/054,534B

DATE: 10/30/2002
TIME: 15:03:06

Input Set : A:\6763uspl.txt
Output Set: N:\CRF4\10302002\J054534B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; N Pos. 10,16

Seq#:6; N Pos. 21,27

VERIFICATION SUMMARY

DATE: 10/30/2002

PATENT APPLICATION: US/10/054,534B

TIME: 15:03:06

Input Set : A:\6763uspl.txt

Output Set: N:\CRF4\10302002\J054534B.raw

L:34 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:38 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:42 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:46 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:50 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:54 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:58 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:62 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:66 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:70 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:74 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:78 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:89 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:93 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:97 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:101 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:105 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:109 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:113 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:117 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:121 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:132 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:136 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
L:140 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
L:144 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
L:148 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
L:152 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
L:156 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
L:160 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
L:164 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
L:175 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:179 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4
L:183 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4
L:187 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4
L:191 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4
L:195 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4
L:199 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4
L:203 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4
L:207 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4
L:218 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:223 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5
L:227 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5
L:232 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5
L:236 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5
L:240 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5
L:241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:251 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:255 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:6

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/054,534B

DATE: 10/30/2002

TIME: 15:03:06

Input Set : A:\6763uspl.txt

Output Set: N:\CRF4\10302002\J054534B.raw

L:259 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:6
L:264 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:6
L:268 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:6
L:273 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:6
L:277 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:6
L:278 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:1070 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:1074 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:36
L:1078 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:36
L:1082 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:36
L:1086 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:36